[34]	PROCESS FOR PRODUCTION OF ARTIFICIAL LEATHERS HAVING AIR PERMEABILITY		
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## [56] References Cited UNITED STATES PATENTS

2,764,565	9/1956	Hoppe et al 264/54 UX
2,850,467	9/1958	Livingood 264/54
2,956,310	10/1960	Roop et al 264/54
3,000,757	9/1961	Johnston et al 260/2.5 BD X
3,047,449	7/1962	Coble 264/54 X
3,694,530	9/1972	Wolfe 264/48
3,830,760	8/1974	Bengtson 260/2.5 BD

## FOREIGN PATENTS OR APPLICATIONS

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## [57] ABSTRACT

A process for the production of artificial leathers having excellent air permeability and resembling a natural leather is provided, which comprises incorporating a catalyst, a foam stabilizer and, optionally, a pigment and other additive into an isocyanate-terminated polyurethane prepolymer formed by compounding a polyester diol derived from an aliphatic dicarboxylic acid with an organic polyisocyanate so that the [NCO]/-[OH] ratio is within a range of from 2.0 to 4.0, to thereby form a substantially solvent-free paint having a viscosity adjusted to 70 to 1000 poises, coating the paint on a release paper in an amount of 50 to 400 g/m<sup>2</sup>, applying the release paper to a substrate, allowing foaming and polymerization reactions to proceed in an atmosphere of a dry-bulb temperature of 40° to 95°C. and a relative humidity of at least 60%, passing the assembly, during the advance of said reactions, between two upper and lower rolls, the clearance of which is so adjusted that the foaming ratio is 2 to 4 in a polyurethane foam layer formed from the polyurethane prepolymer paint coating, further advancing the reactions, and peeling the release paper from the foam laver.

10 Claims, 1 Drawing Figure

